



<b>Form PO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. UCSD-0019 / SD2003-226-111I	Application No. 10/561,108
	Applicant Michael D. Burkart and James J. LaClair	
	Filing Date May 11, 2006	Group 1652
	Confirmation No. 1801	

**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	1	2003/0073205	04/17/03	Arlanian et al.		
	2	2002/0055125	05/09/02	Charych et al.		

**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	3	Ahmed, M.S. et al., "Inhibition of Lactose Transport in <i>E. Coli</i> by N-Ethylmaleimide- $\beta$ -Galactoside, N-Ethylsuccinimide- $\beta$ -Galactoside and N-Ethylmaleimide," <i>Membrane Biochem.</i> , <b>1980</b> , 3(4), 329-340	
	4	Bedford, D.J. et al., "Expression of a Functional Fungal Polyketide Synthase in the Bacterium <i>Streptomyces coelicolor</i> A3(2)," <i>J. Bacteriol.</i> , <b>1995</b> , 177(15), 4544-4548	
	5	Belshaw, P.J. et al., "Aminoacyl-CoAs as Probes of Condensation Domain Selectivity in Non-ribosomal Peptide Synthesis," <i>Science</i> , <b>1999</b> , 284, 486-489	
	6	Caffrey, P. et al., "Identification of DEBS 1, DEBS 2 and DEBS 3, the multienzyme polypeptides of the erythromycin-producing polyketide synthase from <i>Saccharopolyspora erythraea</i> ," <i>FEBS Lett.</i> , <b>1992</b> , 304(2,3), 225-228	
	7	Cane, D.E. et al., "The parallel and convergent universes of polyketide synthases and nonribosomal peptide synthetases," <i>Chem. Biol.</i> , <b>1999</b> , 6, R319-R325	
	8	Cane, D.E. et al., "Harnessing the Biosynthetic Code: Combinations, Permutations, and Mutations," <i>Science</i> , <b>1998</b> , 282, 63-68	
	9	Chang, S. et al., "The Roles of Propeptide in Maturation and Secretion of Npr Protease from <i>Streptomyces</i> *, " <i>J. or Biol. Chem.</i> , <b>1994</b> , 269(5), 3548-3554	
	10	Courtois, S. et al., "Recombinant Environmental Libraries Provide Access to Microbial Diversity for Drug Discovery from Natural Products," <i>Appl. Environ. Microbiol.</i> , <b>2003</b> , 69(1), 49-55	
	11	<del>Gutierrez, P. et al., "Protein Purification by Affinity Chromatography," <i>J. Biol. Chem.</i>, <b>1970</b>, 245(12), 3059-3055</del> Not present in the case.	
	12	Doekel, S. et al., "Review: Biosynthesis of Natural Products on Modular Peptide Synthetases," <i>Metab. Eng.</i> , <b>2001</b> , 3, 64-77	
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	13	Du et al., "The biosynthetic gene cluster for the antitumor drug bleomycin from <i>Streptomyces verticillus</i> ATCC15003 supporting functional interactions between nonribosomal peptide synthetases and a polyketide synthase," <i>Chemistry and Biology</i> , <b>2000</b> , <i>7</i> , 623-642	
	14	Du, L. et al., "Biosynthesis of hybrid peptide-polyketide natural products," <i>Curr. Opin. Drug Discov. Devel.</i> , <b>2001</b> , <i>4</i> (2), 215-228	
	15	Du, L. et al., "Review: Hybrid Peptide-Polyketide Natural Products: Biosynthesis and Prospects toward Engineering Novel Molecules," <i>Metab. Eng.</i> , <b>2001</b> , <i>3</i> , 78-95	
	16	Dueno, E.E. et al., "Cesium Promoted <i>O</i> -Alkylation of Alcohols for the Efficient Ether Synthesis," <i>Tetrahedron Lett.</i> , <b>1999</b> , <i>40</i> , 1843-1846	
	17	Edman, P., "Method for Determination of the Amino Acid Sequence in Peptides," <i>Acta Chem. Scand.</i> , <b>1950</b> , <i>4</i> , 283-293	
	18	Fenical, W., "New pharmaceuticals from marine organisms," <i>Trends Biotechnol.</i> , <b>1997</b> , <i>15</i> , 339-341	
	19	Hutchinson, C.R., "Combinatorial biosynthesis for new drug discovery," <i>Curr. Opin. Microbiol.</i> , <b>1998</b> , <i>1</i> , 319-329	
	20	Jones, K.L. et al., "Low-Copy Plasmids can Perform as Well as or Better Than High-Copy Plasmids for Metabolic Engineering of Bacteria," <i>Metab Eng.</i> , <b>2000</b> , <i>2</i> , 328-338	
	21	Kao, C.M. et al., "Engineered Biosynthesis of the Complete Macrolactone in Heterologous Host," <i>Science</i> , <b>1994</b> , <i>265</i> , 509-512	
	22	Kealey, J.T. et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," <i>Proc. Natl. Acad. Sci. USA.</i> , <b>1998</b> , <i>95</i> , 505-509	
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	23	Kim, E.S. et al., "Heterologous Expression of an Engineered Biosynthetic Pathway: Functional Dissection of Type II Polyketide Synthase Components in <i>Streptomyces</i> Species," <i>J. Bacteriol.</i> , <b>1995</b> , 177(5), 1202-1207	
	24	Lambalot, R.H. et al., "A new enzyme superfamily – the phosphopantetheinyl transferases," <i>Chem. Biol.</i> , <b>1996</b> , 3, 923-936	
	25	Mofid, M.R. et al., "Recognition of Hybrid Peptidyl Carrier Proteins/Acyl Carrier Proteins in Nonribosomal Peptide Synthetase Modules by the 4'-Phosphopantetheinyl Transferases AcpS and Sfp*," <i>J. Biol. Chem.</i> , <b>2002</b> , 277, 17023-17031	
	26	Mootz, H. et al., "Functional characterization of 4'-phosphopantetheinyl transferase genes of bacterial and fungal origin by complementation of <i>Saccharomyces cerevisiae</i> <i>lys5</i> ," <i>FEMS Microbiology Letters</i> , <b>2002</b> , 213, 51-57	
	27	Nielsen, J., "The role of metabolic engineering in the production of secondary metabolites," <i>Curr. Opin. Microbiol.</i> , <b>1998</b> , 1, 330-336	
	28	Pfeifer, B.A. et al., "Biosynthesis of Polyketides in Heterologous Hosts," <i>Microbiol. Mol. Biol. Rev.</i> , <b>2001</b> , 65(1), 106-118	
	29	Pugh, E.L. et al., "Studies on the Mechanism of Fatty Acid Synthesis, XIV. The Prosthetic Group of ACYL Carrier Protein and the Mode of its Attachment to the Protein," <i>J. Biol. Chem.</i> , <b>1965</b> , 240, 4727-4733	
	30	Quadri, L.E et al., "Characterization of Sfp, a <i>Bacillus subtilis</i> , Phosphopantetheinyl Transferase for Peptidyl Carrier Protein Domains in Peptide Synthetases," <i>Biochemistry</i> , <b>1998</b> , 37, 1585-1595	
	31	Shiina, I. et al., "An Effective Method for the Preparation of Chiral Polyoxy 8-Membered Ring Enone Corresponding to the B Ring of Taxol," <i>Bull. Chem. Soc. Jpn.</i> , <b>2001</b> , 74, 113-122	
	32	Strohl, W.R., "Review: Biochemical Engineering of Natural Product Biosynthesis Pathways," <i>Metab. Eng.</i> , <b>2001</b> , 3, 4-14	
	33	Towbin, H. et al., "Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: procedure and some applications," <i>PNAS</i> , <b>1979</b> , 76(9), 4350-4354	
	34	Witkowski, A. et al., "Structural organization of the multifunctional animal fatty-acid synthase," <i>Eur. J. Biochem.</i> , <b>1991</b> , 198, 571-579	
<b>EXAMINER</b> /Rosanne Kosson/		<b>DATE CONSIDERED</b> 2/22/2011	